DIGITAL TRANSFORMATION OF ECONOMIC SECTORS

Credit Value: 5 credits[1]
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A. Course outline

The course "Digital transformation of economic sectors" aims at the formation of the following skills and knowledge:

- knowledge of the main indicators for assessing the economic processes taking place in the economic sector;
- knowledge of the main features and current trends in the development of the considered industry;
- ability to assess the consequences of digital transformation processes at the micro and macro levels;
- ability to identify the effects of digital transformation in the economic sector;
- knowledge of the methods of evaluating digitalization processes using the example of the chosen branch of the economy.

B. Textbooks

Lapidus L.V. Digital economy: management of electronic business and electronic commerce. Moscow: INFRA-M, 2018. 479 p.

C. Assessment details

The final grade consists of:

Types of assessment tools	Score
Participation in classes and completing assignments (case studies, presentations, analytical reports, etc.)	30
2 group projects (4 stages)	20 (5x4)
Group project (final presentation)	50 (25x2)
2 midterm tests	40 (20x2)
Final exam (test)	90

Grade	Minimum score	Maximum score
Excellent	212,5	250
Good	162,5	212
Satisfactory	100	162
Unsatisfactory	0	99

Typical tasks and other materials necessary to assess the learning outcomes:

— Group project

Stages of the project include:

I. Industry's readiness for digital transformation

- general characteristics of the industry
- prerequisites for successful digital transformation
- characteristics of the industry that slow down the processes of digital transformation

II. Industry ecosystem features

- the state of the company's digital environment: micro/meso/macro/mega levels

[1] 1 credit point is equal to 36 hours of total workload including in-class activities, self-study and exam writing

- industry ecosystem features: leading companies/digital infrastructure/ technology and competence centers

III. Benchmarking

- the best industry practices on digital transformation in Russia and in the world: achieved results/effects/KPI

IV. The Future of the industry's digital transformation

- priority technologies for the digital transformation of the industry and effective application solutions based on them
- the company's place in the industry ecosystem

— Test and final exam

Examples of questions

1. Which indicator does not reflect the level of digitalization development in the country:

a. The proportion of the population with "digital behavior" (the habit of using digital services in everyday life)

b. The proportion of the population with access to mobile broadband Internet

c. The proportion of the population actively using social networks

d. The number of newly created small innovative enterprises

2. Which of the following countries has the largest share of patent families in the field of telemedicine:

a. Germany

b. Great Britain

c. USA

d. Turkey

D. Course outline

Topic 1. Industry-specific features and the role of the healthcare sector and transcript industry in the national and global economy
Topic 2. State regulation in the field of digital transformation of the healthcare sector and the transport industry in Russia
Topic 3. Priority digital technologies in healthcare and transport industry
Topic 4. The use of digital technologies to improve the quality of healthcare services. The digital transformation model in the transport industry.
Topic 5. Digital Healthcare Ecosystem. Breakthrough business models in the transportation industry
Topic 6. Benchmarking in healthcare. Conditions for successful digitalization in the healthcare sector. Assessment of the level of development of the transport complex
Final exam